

| Exploring Aeronautics                 |       |             |  |
|---------------------------------------|-------|-------------|--|
| 2002 Science                          |       |             |  |
| Core Curriculum                       |       |             |  |
| Utah Science                          |       |             |  |
| Grade 5                               |       |             |  |
| Activity/Lesson                       | State | Standards   |  |
|                                       |       |             |  |
| Science of Flight                     | UT    | SCI.5.1.3.e | Hypothesize how changing one of the materials in a chemical reaction will change the results.                            |
| Integrating with Aeronautics          | UT    | SCI.5.1.1.a | Compare the total weight of an object to the weight of its individual parts after being disassembled.                    |
|                                       |       |             |  |
| Exploring Aeronautics                 |       |             |  |
| 2002 Science                          |       |             |  |
| Core Curriculum                       |       |             |  |
| Utah Science                          |       |             |  |
| Grade 6                               |       |             |  |
| Activity/Lesson                       | State | Standards   |  |
| Fundamentals of Aeronautics (145-176) | UT    | SCI.6.5.2.d | Display results in an appropriate format (e.g., graphs, tables, diagrams).   |
| Scientific Method(124-144)            | UT    | SCI.6.1.1.d | Design an investigation, construct a chart, and collect data depicting the phases of the moon.                           |
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| Exploring Aeronautics                 |       |             |  |
| 2002 Science                          |       |             |  |
| Core Curriculum                       |       |             |  |
| Utah Science                          |       |             |  |
| Grade 7                               |       |             |  |
| Activity/Lesson                       | State | Standards   |  |
| Fundamentals of Aeronautics (145-176) | UT    | SCI.7.1.3.c | Design and conduct an experiment investigating the diffusion of particles.   |
| Science of Flight                     | UT    | SCI.7.1.3.d | Formulate and test a hypothesis on the relationship between temperature and motion.                                      |
| Scientific Method(124-144)            | UT    | SCI.7.1.2.e | Design a procedure to measure mass and volume of gases.  |
|                                       |       |             |  |
| Exploring Aeronautics                 |       |             |  |
| 2002 Science                          |       |             |  |
| Core Curriculum                       |       |             |  |
| Utah Science                          |       |             |  |
| Grade 8                               |       |             |  |
| Activity/Lesson                       | State | Standards   |  |
|                                       |       |             |  |
| Fundamentals of Aeronautics (145-176) | UT    | SCI.8.1.3.e | Plan and conduct an experiment, and report the effect of adding or removing energy on the chemical and physical changes. |
| Wings(177-208)                        | UT    | SCI.8.2.2.d | Research multiple ways that different scientists have investigated the same ecosystem.                                   |
| Wings(177-208)                        | UT    | SCI.8.4.2.d | Design and build structures to support a load.   |
| Tools of Aeronautics(257-326)         | UT    | SCI.8.4.3.c | Engineer a device that uses friction to control the motion of an object.   |

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|-------------------------------|----|-------------|---|
| Tools of Aeronautics(257-326) | UT | SCI.8.4.3.e | Investigate the principles used to engineer changes in forces and motion.     |
| How an Airplane Flies         | UT | SCI.8.4.3.e | Investigate the principles used to engineer changes in forces and motion.     |
| The Tools of Aeronautics      | UT | SCI.8.4.2.e | Engineer (design and build) a machine that uses gravity to accomplish a task. |
| The Tools of Aeronautics      | UT | SCI.8.4.3.e | Investigate the principles used to engineer changes in forces and motion.     |
| The Activity Center           | UT | SCI.8.4.3.e | Investigate the principles used to engineer changes in forces and motion.     |
| Integrating with Aeronautics  | UT | SCI.8.4.3.e | Investigate the principles used to engineer changes in forces and motion.     |